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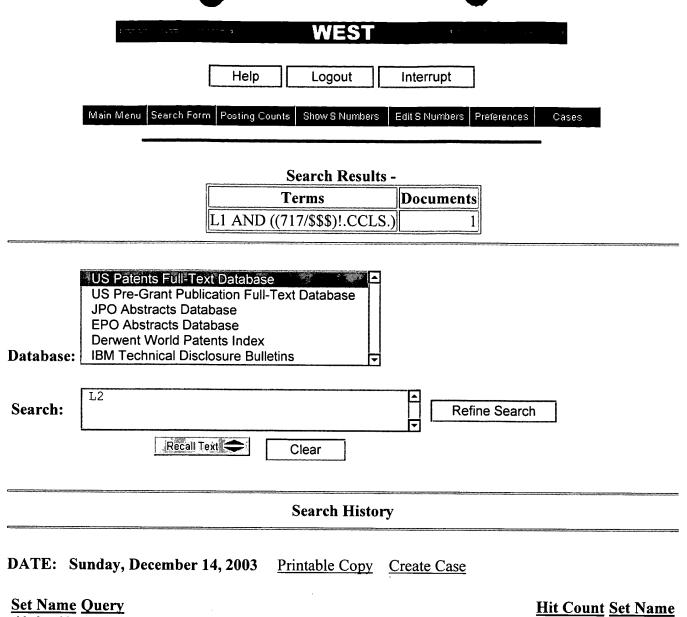
Refine Search

Search History

DATE: Sunday, December 14, 2003 Printable Copy Create Case

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DB=US	SPT; PLUR=NO; OP=OR		
<u>L6</u>	L5 AND ((717/\$\$\$)!.CCLS.)	18	<u>L6</u>
<u>L5</u>	L4 AND object	81	<u>L5</u>
<u>L4</u>	L2 and (attribute or variable)	82	<u>L4</u>
<u>L3</u>	L2 and (attribute or variable)	82	<u>L3</u>
<u>L2</u>	L1 AND default	85	<u>L2</u>
<u>L1</u>	getter and setter	117	<u>L1</u>

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END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 1 of 1 returned.

☑ 1. Document ID: US 6223274 B1

L2: Entry 1 of 1

File: USPT

Apr 24, 2001

US-PAT-NO: 6223274

DOCUMENT-IDENTIFIER: US 6223274 B1

TITLE: Power-and speed-efficient data storage/transfer architecture models and

design methodologies for programmable or reusable multi-media processors

DATE-ISSUED: April 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Catthoor; Francky	Temse			BE
Miranda; Miguel	Heverlee			BE
Janssens; Stefan	Lennik			BE
De Man; Hugo	Kessel-Lo			BE

US-CL-CURRENT: 712/34; 709/108, 712/40, 717/127

ABSTRACT:

A programmable processing engine and a method of operating the same is described, the processing engine including a customized processor, a flexible processor and a data store commonly sharable between the two processors. The customized processor normally executes a sequence of a plurality of pre-customized routines, usually for which it has been optimized. To provide some flexibility for design changes and optimizations, a controller for monitoring the customized processor during execution of routines is provided to select one of a set of pre-customized processing interruption points and for switching context from the customized processor to the flexible processor at the interruption point. The customized processor can then be switched off and the flexible processor carries out a modified routine. By using sharable a data store, the context switch can be chosen at a time when all relevant data is in the sharable data store. This means that the flexible processor can pick up the modified processing cleanly. After the modified processing the flexible processor writes back new data into the data store and the customized processor can continue processing either where it left off or may skip a certain number of cycles as instructed by the flexible processor, before beginning processing of the new data.

30 Claims, 27 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 23

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw Desc Image

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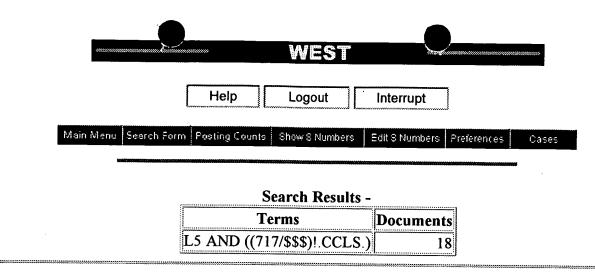
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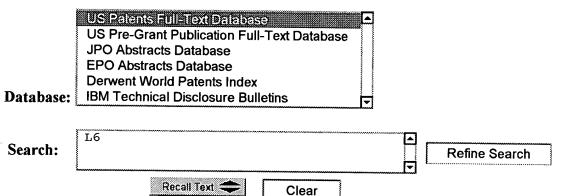


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DATE: Sunday, December 14, 2003 Printable Copy Create Case

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DB=US	SPT; PLUR=NO; OP=OR		
<u>L6</u>	L5 AND ((717/\$\$\$)!.CCLS.)	18	<u>L6</u>
<u>L5</u>	L4 AND object	81	<u>L5</u>
<u>L4</u>	L2 and (attribute or variable)	82	<u>L4</u>
<u>L3</u>	L2 and (attribute or variable)	82	<u>L3</u>
<u>L2</u>	L1 AND default	85	<u>L2</u>
<u>L1</u>	getter and setter	117	L1

END OF SEARCH HISTORY



Generate Collection

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Search Results - Record(s) 1 through 18 of 18 returned.

1. Document ID: US 6654932 B1

L6: Entry 1 of 18

File: USPT

Nov 25, 2003

US-PAT-NO: 6654932

DOCUMENT-IDENTIFIER: US 6654932 B1

TITLE: Validating data within container objects handled by view controllers

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Bahrs; Peter C.

Austin

TX

Modh; Manish Mahesh

Round Rock

TX

US-CL-CURRENT: 715/507; 345/764, 715/508, 717/116

ABSTRACT:

A method and apparatus in a data processing system for performing validation of user input. User input is received in a container displayed in a graphical user interface, wherein presentation of the container and the user input to the container are handled by a view controller. Responsive to receiving the user input, a call is sent to a validation object by the view controller. Responsive to the call, the validation object tests the user input using a criteria, wherein the rule is separate from the view controller.

25 Claims, 196 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 119

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw Desc Image

2. Document ID: US 6654778 B1

L6: Entry 2 of 18

File: USPT

Nov 25, 2003

US-PAT-NO: 6654778

DOCUMENT-IDENTIFIER: US 6654778 B1

TITLE: Method and apparatus for avoiding function activation and interpretation overhead for calls to selected java methods in a java virtual machine interpreter

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME

CITY

ZIP CODE

COUNTRY

Blandy; Geoffrey Owen Hargrave; Bentley John

Austin Austin

in

TX TX

STATE

US-CL-CURRENT: 718/1; 1/118, 717/136, 717/148

ABSTRACT:

A method and apparatus for a process in a computer for processing a method that performs a function. A determination is made as to whether the method is to be executed normally when the method is loaded. Responsive to an absence of a determination that the method is a method to be executed normally, instructions native to the computer are associated with the method, wherein the instructions perform the function.

26 Claims, 7 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

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3. Document ID: US 6601234 B1

L6: Entry 3 of 18

File: USPT

Jul 29, 2003

US-PAT-NO: 6601234

DOCUMENT-IDENTIFIER: US 6601234 B1

TITLE: Attribute dictionary in a business logic services environment

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE C

COUNTRY

Bowman-Amuah; Michel K.

Colorado Springs

CO

US-CL-CURRENT: 717/108; 705/7, 717/107, 717/116

ABSTRACT:

A system and method are provided for controlling access to data of a business object via an attribute dictionary. The attribute dictionary, which stores attribute names and values, is dispatched over a network. A helper facade is provided for interfacing a business object and the attribute dictionary. Next, it is verified that a current user is authorized to either set or get one of the attribute values upon a request which includes the attribute name that corresponds to the attribute value. The helper facade is called to set, get, or update one of the attribute values based on the corresponding attribute name, wherein the helper facade shields the attribute dictionary from the application code of the business object. The attribute value in the attribute dictionary is obtained or updated if the verification is successful, and a dirty flag is set in the attribute dictionary and an indicator is broadcast upon the attribute value being updated.

15 Claims, 195 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 123

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☐ 4. Document ID: US 6598219	BI
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L6: Entry 4 of 18

File: USPT

Jul 22, 2003

US-PAT-NO: 6598219

DOCUMENT-IDENTIFIER: US 6598219 B1

TITLE: Method and mechanism for a task oriented XML data model

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME

Lau; Christina P.

CITY

STATE ZIP CODE

COUNTRY

Scarborough

CA

US-CL-CURRENT: 717/108

ABSTRACT:

A task oriented data model for an object oriented development tool. The data model comprises a task oriented structure which mirrors the task tree embodied in the user interface of the object development tool. The object development tool exports the data model as a document expressed in meta data language such as XML. The XML data model document comprises a series of data elements which are arranged according to a meta data model to mirror the user interface task tree. The meta data model is implemented in XML as a Document Type Definition and comprises containment relationships defined by XML constructs. The task oriented data model provides granularity for exporting and importing data elements, and also facilitates locating data elements of interest in the data model.

12 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 2

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5. Document ID: US 6574791 B1

L6: Entry 5 of 18

File: USPT

Jun 3, 2003

US-PAT-NO: 6574791

DOCUMENT-IDENTIFIER: US 6574791 B1

TITLE: Component based designer for modifying and specializing wizards

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Gauthier; Charles Salo

Stewartville

MN

Minard; Kevin Glen

Parker

CO

Toogood; Jay Daniel

Rochester

MN

US-CL-CURRENT: 717/107; 717/109

ABSTRACT:

The preferred embodiment of the present invention an object oriented wizard creation mechanism provides an environment and set of facilities for creating and modifying wizards. The preferred embodiment wizard creation mechanism provides a WizardWizard mechanism for creating the skeleton of new wizard, a WizardDesigner mechanism for specializing and WizardMetaDataManager mechanism for persisting and retrieving created wizards. The WizardWizard guides the developer through a predetermined series of steps that are required to define a the basic components of a new wizard. The WizardDesigner takes these basic components and guides the developer through a specialization process that further customizes and defines the new wizard. In the preferred embodiment, the WizardWizard and the WizardDesigner create and specialize

the target wizard from a component based Wizard framework. The use of the component based Wizard framework with the WizardWizard and WizardDesigner provide a customizable and extensible wizard creation solution to that has utmost functionality and flexibility to the users and developers.

63 Claims, 28 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 28

Full Title Citation Front Review Classification Date Reference Sequences Affachments

KMC Draw Deso Image

6. Document ID: US 6550057 B1

L6: Entry 6 of 18

File: USPT

Apr 15, 2003

US-PAT-NO: 6550057

DOCUMENT-IDENTIFIER: US 6550057 B1

TITLE: Piecemeal retrieval in an information services patterns environment

DATE-ISSUED: April 15, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Bowman-Amuah; Michel K.

Colorado Springs

CO

US-CL-CURRENT: 717/126; 700/80, 707/5, 717/101, 717/102, 717/108, 717/109, 717/113

ABSTRACT:

A system, method and article of manufacture are provided for providing a warning upon retrieval of objects that are incomplete. An object is provided with at least one missing attribute. Upon receipt of a request from an application for the object access to the attributes of the object is allowed by the application. A warning is provided upon an attempt to access the attribute of the object that is missing.

15 Claims, 195 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 123

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMMC Draw Desc Image

7. Document ID: US 6502234 B1

L6: Entry 7 of 18

File: USPT

Dec 31, 2002

US-PAT-NO: 6502234

DOCUMENT-IDENTIFIER: US 6502234 B1

TITLE: Component based wizard for creating wizards

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Gauthier; Charles Salo

Minard; Kevin Glen

Parker

MN

Toogood; Jay Daniel

Rochester

Stewartville

CO MN

US-CL-CURRENT: 717/107; 717/101, 717/106, 717/108, 717/109, 717/115, 717/116

ABSTRACT:

The preferred embodiment of the present invention an object oriented wizard creation mechanism provides an environment and set of facilities for creating and modifying wizards. The preferred embodiment wizard creation mechanism provides a WizardWizard mechanism for creating the skeleton of new wizard, a WizardDesigner mechanism for specializing and WizardMetaDataManager mechanism for persisting and retrieving created wizards. The WizardWizard guides the developer through a predetermined series of steps that are required to define a the basic components of a new wizard. The WizardDesigner takes these basic components and guides the developer through a specialization process that further customizes and defines the new wizard. In the preferred embodiment, the WizardWizard and the WizardDesigner create and specialize the target wizard from a component based Wizard framework. The use of the component based Wizard framework with the WizardWizard and WizardDesigner provide a customizable and extensible wizard creation solution to that has utmost functionality and flexibility to the users and developers.

54 Claims, 28 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 28

Full Title Citation Front Review Classification Data Reference Sequences Attachments

KMC Draw Desc Image

8. Document ID: US 6442748 B1

L6: Entry 8 of 18

File: USPT

Aug 27, 2002

US-PAT-NO: 6442748

DOCUMENT-IDENTIFIER: US 6442748 B1

TITLE: System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Bowman-Amuah; Michel K.

Colorado Springs

CO

US-CL-CURRENT: 717/108; 707/103R, 707/104.1, 707/9, 709/316

ABSTRACT:

A system, method and article of manufacture are provided for separating logic and data access concerns during development of a persistent object for insulating development of business logic from development of data access routine. A persistent object being developed is accessed and a state of the persistent object is detached into a separate state class. The state class serves as a contract between a logic development team and a data access development team. Logic development is limited by the logic development team to developing business logic. Data access development is restricted by the data access development team to providing data creation, retrieval, updating, and deletion capabilities.

18 Claims, 195 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 123

Full Title Citation Front | Review Classification | Date Reference Sequences Attachments

1000C Oram Desc Image

9. Document ID: US 6314559 B1

L6: Entry 9 of 18

File: USPT

Nov 6, 2001

US-PAT-NO: 6314559

DOCUMENT-IDENTIFIER: US 6314559 B1

** See image for Certificate of Correction **

TITLE: Development system with methods for assisting a user with inputting source

DATE-ISSUED: November 6, 2001

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Sollich; Peter Franz Valentin

Santa Cruz

CA

US-CL-CURRENT: <u>717/111</u>

ABSTRACT:

A visual development system having an interface which assists a user with input of source code expressions and statements during creation of a computer program is described. The interface includes an Integrated Development Environment (IDE) interface having a code editor with "Code Completion" and "Code Parameter" features for displaying context sensitive pop-up windows within a source code file. Code Completion is implemented at the user interface level by displaying a Code Completion dialog box after the user enters a record or class name followed by a period. For a class, the dialog lists the properties, methods and events appropriate to the class. For a record or structure, the dialog lists the data members of the record. To complete entry of the expression, the user need only select an item from the dialog list, whereupon the system automatically enters the selected item in the code. Code completion also operates during input of assignment statements. When the user enters an assignment statement for a variable and presses a hot key (e.g., <ctrl><space_bar>), a list of arguments valid for the variable is displayed. Here, the user can simply select an argument to be entered in the code. Similarly, the user can bring up a list of arguments when typing a procedure, function, or method call and needs to add an argument. In this manner, the user can view the required arguments for a method as he or she enters a method, function, or procedure call.

5 Claims, 35 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 34

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☐ 10. Document ID: US 6292933 B1

L6: Entry 10 of 18

File: USPT

Sep 18, 2001

US-PAT-NO: 6292933

DOCUMENT-IDENTIFIER: US 6292933 B1

** See image for Certificate of Correction **

TITLE: Method and apparatus in a data processing system for systematically serializing complex data structures

DATE-ISSUED: September 18, 2001

INVENTOR - INFORMATION:

NAME	CITY	STALL	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		33011111
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 717/107; 707/203, 717/108, 717/109

ABSTRACT:

A method and apparatus in a data processing system for serialization data. A serializer receives a data element for serialization, wherein the data element includes a class name string. Responsive to receiving the data element, the serializer replaces the class name string with a code having a smaller size than the class name string to form a modified data element. Responsive to forming the modified data element, in which the serializer serializes the modified data element. The serialized data is transmitted and deserialized by deserializer which replaces the indicator with the class name.

24 Claims, 197 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 119

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☐ 11. Document ID: US 6247020 B1

L6: Entry 11 of 18

File: USPT

Jun 12, 2001

US-PAT-NO: 6247020

DOCUMENT-IDENTIFIER: US 6247020 B1

TITLE: Development system with application browser user interface

DATE-ISSUED: June 12, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Minard; Jayson R.

Littleton

CO

US-CL-CURRENT: 707/104.1; 345/629, 345/854, 709/206, 715/501.1, 715/513, 717/100, 717/107, 717/118

ABSTRACT:

A component-based, rapid application development (RAD) Java environment providing an improved user interface is described. The interface includes a single Application Browser or "AppBrowser" that is used to perform all the usual development functions. The AppBrowser lets the user explore, edit, design, and debug all in one unified window. Serving as a mechanism for hosting arbitrary documents or other objects related to development, the AppBrowser presents the documents or other objects for manipulation in a window that consists of three panes: Navigation pane, Content pane, and Structure pane. In general, the Navigation pane displays a list of documents, the Content pane displays the document itself, and the Structure pane displays the structure of the document if available. The grouping of the three panes exists on a browser "context" or mode. Multiple contexts can appear on an AppBrowser represented by a tab in a tab set at the lower left of the window. These contexts add a 3D feel to AppBrowser by layering its functionality in one window rather than spread across multiple windows. Switching between completely different contexts is then as easy as selecting a tab. The AppBrowser may have different logic for any

given context that is global across the three panes; the logic is provided by implementing a standard browser context interface.

33 Claims, 18 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 16

Full Title Citation Front Review Classification Date Reference Sequences Attachments

MANO Draw Desc Image

☐ 12. Document ID: US 6237135 B1

L6: Entry 12 of 18

File: USPT

May 22, 2001

US-PAT-NO: 6237135

DOCUMENT-IDENTIFIER: US 6237135 B1

TITLE: Development system with visual design tools for creating and maintaining Java

Beans components

DATE-ISSUED: May 22, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

Timbol; Michael

Scotts Valley

CA

COUNTRY

US-CL-CURRENT: 717/107; 717/118

ABSTRACT:

A component-based, rapid application development (RAD) Java system providing visual designers (i.e., wizards) and methodology allowing a developer (user) to create Java Beans-compatible components rapidly and easily is described. In typical operation of the system, the user may generate a "bean" component by invoking a wizard-based interface that implements methodology for automatically generating and managing the bean. The user employs the wizard to specify information about the bean, such as the name of the bean, the package it will be in, and the class it extends from. In response to the user input, the system creates a bean with the name the user specified, places it in the user's current project, and displays the source code generated for the bean. The user may visually interact with the bean (or other existing bean) by using the visual designers to manage the bean's properties, including: adding properties to the bean, adding bound and constrained properties, modifying properties of the bean, removing properties from the bean, or even generate a custom property editor. In a similar manner, the user may proceed to use the visual designers to manage the bean's events, including: adding events, listening for events, and creating custom event sets.

38 Claims, 15 Drawing figures Exemplary Claim Number: 29 Number of Drawing Sheets: 13

Full Title Citation Front Review Classification Date Reference Sequences Attachments

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13. Document ID: US 6185728 B1

L6: Entry 13 of 18

File: USPT

Feb 6, 2001

US-PAT-NO: 6185728

DOCUMENT-IDENTIFIER: US 6185728 B1

TITLE: Development system with methods for type-safe delegation of object events to

event handlers of other objects

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hejlsberg; Anders Los Altos Hills CA

US-CL-CURRENT: 717/109; 717/116

ABSTRACT:

A visual development system is described which provide "method pointers" allowing a developer/user to achieve delegation between objects programmatically as well as visually. Delegation "binds" an event source with an event handler. This binding is directly supported within the programming language of the system. Using a simple assignment statement, the user can assign a handler of one object (i.e., delegated-to object) to the method pointer of another object (i.e., delegated-from object). A delegation through assignment leads to not only the address of the method being copied but also the address of the delegated-to object (i.e., "this" pointer) being copied into the method pointer. The method pointer, when called, can invoke the pointed-to method on that (delegated-to) object, complete with the context (e.g., local data) of the object. The object knows about itself and, thus, can provide the appropriate context. In this fashion, the system allows the user to easily control object behavior through delegation, whether the user is working in a visual environment or a programming environment (or switching back and forth between each).

35 Claims, 20 Drawing figures Exemplary Claim Number: 21 Number of Drawing Sheets: 18

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14. Document ID: US 5987247 A

L6: Entry 14 of 18 File: USPT

Nov 16, 1999

US-PAT-NO: 5987247

DOCUMENT-IDENTIFIER: US 5987247 A

** See image for Certificate of Correction **

TITLE: Systems, methods and computer program products for building frameworks in an

object oriented environment

DATE-ISSUED: November 16, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lau; Christina Ontario CA

US-CL-CURRENT: 717/100; 717/108

ABSTRACT:

Systems, methods and computer program products enable framework building by interactively generating a framework corresponding to a design and editing the interactively generated framework to obtain a completed framework. The framework is displayed in various stages of construction or modification using a number of different views including a tree view, a graph view, a method view and an edit view. In addition, parts of the framework are identified as requiring completion, as completed, and as permitting completion. Still further, user methods and framework methods are differentiated. Help guided actions are provided and may be invoked to

assist in the development process. Once the framework has been completed, it can be stored in a data model, and code can be generated from the completed framework. Finally, interfaces developed using conventional editors may be parsed and imported into the data model for later code generation. As a result of the present invention, code may be generated based on the completed framework and executed in a distributed computing environment.

76 Claims, 6 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 4

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWMC Draw Desc Image

☐ 15. Document ID: US 5724589 A

L6: Entry 15 of 18

File: USPT

Mar 3, 1998

US-PAT-NO: 5724589

DOCUMENT-IDENTIFIER: US 5724589 A

TITLE: Development system with a property-method-event programming model for developing context-free reusable software components

DATE-ISSUED: March 3, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Wold; Ivar

Boston

MA

US-CL-CURRENT: 709/318; 717/100, 717/116, 717/140

ABSTRACT:

A development system providing a property-method-event programming (PME) model for developing context-free reusable software components is described. Despite the absence of any C++ language support for events, the present invention provides a type-safe "wiring" mechanism--one using standard C++ to dispatch an event, raised by one object (the "event source"), to a method of another object (the "event sink"), with the requirement that the event source does not need to know the class of the event sink. As a result, the system allows developers to create C++ software components which can be connected together without the components having to know anything about the makeup of the component to which it is connected. Thus, developers can create pre-packaged, re-usable software components which can simply be "plugged into" a design--all accomplished within the confines of the standard C++ programming language (i.e., without having to employ proprietary extensions).

30 Claims, 10 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full Title Citation Front Review Classification Date Reference Sequences Attachments

::VMC | Draw Desc | Image

☐ 16. Document ID: US 5630131 A

L6: Entry 16 of 18

File: USPT

May 13, 1997

US-PAT-NO: 5630131

DOCUMENT-IDENTIFIER: US 5630131 A

TITLE: Method and apparatus for importing and exporting archive files for a

graphical user interface

DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Palevich; Jack H. Sunnyvale CA Taylor; Thomas H. San Jose CA

US-CL-CURRENT: 717/108; 345/700, 709/315, 717/109

ABSTRACT:

A method for use in an object oriented programming (OOP) based computer system which utilizes a first application program having interface objects for building a second application program having additional interface objects is provided. The method includes storing objects in a hierarchical locale tree in a storage device. The locale tree has a root locale level and at least one other locale level associated with the second locale. A first plurality of user interface objects having one or more interface object control and a second plurality of user interface objects not having interface object controls of the first locale are created. The second plurality of user interface objects are stored in the other locale level associated with the second locale. The locale tree is traversed, starting at the other locale level associated with the second local and proceeding to the root locale level, to assemble a set of available user interface objects from the user interface objects stored in the other locale level and the root locale level. User interface objects are utilized to develop a third application program derived from the first and second application programs. In addition, objects are imported and exported during processing for use in other program applications by segmenting an object into a human readable and a binary representation. In addition, a storage device readable by a computer system for implementing the method and a user interface object archive system which implements the method are provided.

15 Claims, 39 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 36

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☐ 17. Document ID: US 5519862 A

L6: Entry 17 of 18 File: USPT May 21, 1996

US-PAT-NO: 5519862

DOCUMENT-IDENTIFIER: US 5519862 A

TITLE: Concurrent processing apparatus with incremental command objects

DATE-ISSUED: May 21, 1996

INVENTOR-INFORMATION:

NAME CTTY STATE ZIP CODE COUNTRY Schaeffer; Arnold Belmont CA Goldsmith; David B. Los Gatos CA Moeller; Christopher P. Los Altos CA Heninger; Andrew G. Mountain View CA

US-CL-CURRENT: 717/165; 717/110

ABSTRACT:

A method and apparatus for an innovative object oriented framework system is

disclosed. The system uses an innovative load architecture for a framework application by multiple users. The load architecture implements functions, static data and classes in a more flexible manner than prior operating systems.

42 Claims, 30 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 19

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☐ 18. Document ID: US 5479601 A

L6: Entry 18 of 18

File: USPT

Dec 26, 1995

US-PAT-NO: 5479601

DOCUMENT-IDENTIFIER: US 5479601 A

TITLE: Method and apparatus for processing commands generated by user interface controls in an atomic manner

DATE-ISSUED: December 26, 1995

INVENTOR-INFORMATION:

NAME

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US-CL-CURRENT: 345/700; 345/701, 717/168

ABSTRACT:

An object-oriented user interface utilizes object-oriented controls that operate together as a single, atomic group to change data values and are affected as a group by conventional editing "undo" and "redo" actions. In accordance with one embodiment, each control in the group generates a command which modifies a stored control value when the control is manipulated by a user. In response to user activation, a group acceptance control generates a command which causes the data values to be changed to the stored control values. In accordance with another embodiment, each control in the group generates a command which modifies the group acceptance control command. When the group acceptance control command is finally activated, the modified command causes the data values to be changed. The entire control group can also be undone and redone in a single atomic operation which is implemented by placing a mark on an undo stack when an interface session involving a control group is started. When the session ends, all of the commands executed since the mark was placed on the undo stack are collected together into a single command group which can be undone or redone as a unit.

16 Claims, 20 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 13

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sérjuéncés | Attachments

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